



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 4450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/935,414	08/23/2001	Elmootazbellah Nabil Elnozahy	AUS920010135US1	9849
44994	7590	08/26/2005	EXAMINER	
IBM CORPORATION (DWL) C/O LALLY & LALLY, L.L.P. P. O. BOX 684749 AUSTIN, TX 78768-4749			HU, JINSONG	
			ART UNIT	PAPER NUMBER
			2154	

DATE MAILED: 08/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/935,414

Applicant(s)

ELNOZAHY ET AL.

Examiner

Jinsong Hu

Art Unit

2154

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 26 May 2005.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,2,4-10 and 12-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-10 and 12-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. Claims 1-2, 4-10 and 12-19 are presented for examination. Claims 1, 9 and 17 have been amended; Claims 3, 11 and 20 have been canceled.

#### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-2, 4-10 and 12-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Deily et al. (US 2004/0044760) in view of Lin et al. (US 6,272,522).

4. Deily is a prior art reference cited by Examiner in the previous office action.

5. As per claims 1 and 4-5, Deily teaches the invention as claimed including a web server having a user space and an operating system space [i.e., user-mode & kernel-mode, Fig. 4; par. 58], comprising of a user space application level interpreter configured to process client requests [request, Fig. 4; pars. 12 & 59-60]; at least one user space kernel extension device driver enabling the application level interpreter to communicate with a network interface [pars. 59-60 & 73]; and a user space

transmission protocol library enabling the web server to process client requests and the corresponding responses within the user space [pars 64-65, 67 & 76].

6. Deily does not specifically teach the step of polling network interface periodically. However, Lin on the other hand teaches the step of polling network interface periodically [102, Fig. 5; col. 8, lines 23-25]. It would have been obvious to a person of ordinary skill in the art to include Lin's polling step in Deily's system because it would increase efficiency of the system by processing user's request without delay once user's request arrived. One of ordinary skill in the art would have been motivated to modify Deily's system with Lin's polling step to improve the performance of the system.

7. As per claim 2, Deily teaches the interpreter comprises an HTTP interpreter [par. 60].

8. As per claim 6, Deily teaches the web server includes a user space file cache [414, Fig. 4; par. 62].

9. As per claim 7, Deily teaches web server is configured to initiate multiple threads within its user space responsive to user requests [par. 96].

10. As per claims 9-10 and 12-15, since they are apparatus claims of claims 1-2 and 4-7, they are rejected for the same basis as claims 1-2 and 4-7 above.

Art Unit: 2154

11. As per claims 17-19, since they are computer program claims of claims 1-2 and 4-7, they are rejected for the same basis as claims 1-2 and 4-7 above.

12. Claims 8 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Deily et al. (US 2004/0044760) in view of Lin et al. (US 6,272,522), further in view of "Official Notice".

13. As per claim 8 and 16, Deily and Lin teach the invention substantially as claimed in claim 1. Both references do not specifically teach the user space threads including perl scripts, cgi threads and Java servlets. "Official Notice" is taken that both the concept and advantages of providing for perl scripts, cgi threads and Java servlets are well known and expected in the art. It would have been obvious to a person of ordinary skill in the art include perl scripts, cgi threads and Java servlets with Deily/Lin's system because it would improve the functionality of the system by providing diverse services to user.

### ***Conclusion***

14. Applicant's arguments with respect to claims 1-2, 4-10 and 12-19 have been considered but are moot in view of the new ground(s) of rejection.

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jinsong Hu whose telephone number is (571) 272-3965.


The examiner can normally be reached on 8:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A. Follansbee can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jinsong Hu

August 19, 2005

JOHN FOLLANSBEE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100